

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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Geology Attracts Award-Winning JEdI Project

The U.S. Geological Survey (USGS) has transferred leadership of the award-winning Joint Education Initiative (JEdI) project to the Department of Geology. JEdI provides teachers and students with computer access to the same scientific data used by scientists for studying a variety of environmental issues.

Last month, JEdI received the national FOSE CD-ROM Award, which was created in 1990 to recognize the most significant contribution to facilitating access to government information while saving tax money, promoting the public good, and being inexpensive and user-friendly.

As the new center for the JEdI project, College Park will take the lead in efforts to expand the initiative into a full-scale national project and to revolutionize American earth science throughout the country.

"A primary goal of the JEdI Project is to invigorate the teaching of earth science studies in American schools," says Robert Ridky, associate professor of geology and co-director of the JEdI program at the university.

JEdI evolved from a pilot study conducted by the USGS and a group of federal science agencies, private industry, and the academic

community that included creation of CD-ROMS (compact discs—read only memory), the latest in powerful information storage and processing technology, to capture vast amounts of scientific data for use by students and teachers. Each CD-ROM, the size of a conventional compact disc, can hold the equivalent of a three-story stack of type-written pages.

To prepare the CD-ROMS, the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration, along with the USGS, contributed data and software for the discs as well as extensive time and effort from their scientific staff.

Through JEdI, teachers will have access to critical data on pressing earth science and environmental issues—the same data research scientists use to study such problems as sea level rise, coastal erosion, ozone depletion, and global warming. Specific examples include data on salinity and temperatures for the Pacific Ocean; sonar images of the sea floor; seismic data from the 1989 Loma Prieta earthquake in California; high-altitude photography and side-looking radar images of fire-ravaged Yellowstone National Park; and Voyager images of the planets.



Satellite photograph of Chesapeake Bay: Using images captured in CD-ROM technology, College Park students have available a wealth of scientific imagery for analysis and interpretation.

Richard Herman, dean of the College of Computer, Mathematical, and Physical Sciences, notes that "we seek to build this well-begun effort into a full-scale national project and we are delighted that our Department of Geology is taking the leadership role for JEdI."

Gary Stephenson

INSIDE

Assessing Filipino Human Rights Education

Claude's new study should be read by other emerging democracies.....4

New Uses for Lord Baltimore's English Estate

Kiplin Hall to be site of overseas program.....5

Can Africa's Sahel Drought be Reversed?

University's meteorologists use computerized climate model.....6

Faculty Appointments and Promotions for 1991

New titles, new faces, new responsibilities.....7

Academic Programs and the Budget: An Interview with J. Robert Dorfman

Vice President for Academic Affairs and Provost J. Robert Dorfman recently discussed with *Outlook* editor Roz Hiebert the effects of the university's reduced budget on academic programs at College Park.

Q. How much effect will the \$8 million budget cut have on the academic program?

A. Academic affairs has already absorbed a \$10 million cut for the current fiscal year, plus an additional set aside of \$3 million that will be lost in the current round of budget cuts. This is a very serious cut to absorb in one year.

Q. As part of the newest \$8 million reduction, will Academic Affairs suffer in the area of part-time employees?

A. If we were to lose any part-time employees, it would have a severe impact on the instructional program. The university is reducing only the number of part-time non-instructional employees at this time, and we are trying to protect

the academic program in every way possible.

Q. What effect will the spring semester 15 percent tuition surcharge imposed by the Board of Regents have on enrollment?

A. This is meant to be a one-time tuition surcharge. Of course, we would have preferred not to see this happen. But when you examine our costs relative to those of our peers, you see that we still are less expensive than many public universities. We are still offering a high quality education at a very modest price, and I believe students recognize that fact.

Q. Bring us up-to-date on the process of eliminating, consolidating and merging programs.

A. We are anticipating getting about 10 of the 19 committee reports in September and October. Those recommendations will go to the appropriate dean, then come

continued on page 2

Kirwan Will Speak to Campus Senate Sept. 16

An address by President William E. Kirwan will be the highlight of the first fall semester meeting of the Campus Senate on Monday, Sept. 16. Held from 3:30 to 6:30 p.m. in Room 0126 of the Reckord Armory, the meeting also will feature the election of a new executive committee, the presentation of an organization plan for the College of Computer, Mathematical and Physical Sciences, and a report from the General Committee on Governmental Affairs about its summer activities. A new member reception will precede the meeting at 2:45 p.m. Call the Campus Senate Office at 405-5805 for more information.

Provost Disusses Academic Issues

continued from page 1



J. Robert Dorfman

here, to APAC, to the president, to the Campus Senate and to the president for his final decision. So we are going to have a very interesting and somewhat hectic year in the senate as these issues get thrashed out.

Q. Will there be decision-making in batches on the recommendations?

A. The only way a batch process could arise is if we deliver decisions to the Campus Senate in batches, which may be an intelligent way to proceed. It is going to be up to the Senate as to how they want to proceed.

Q. How about the faculty role?

A. The deans' charge is to make comments and responses. The 19 review committees are using the time and energies of about 125 faculty members from across the campus, plus students. So this is an exercise which is really a fundamentally faculty activity, and APAC too, is mainly a faculty committee.

Q. Is there a plan for more public hearings?

A. Certainly. Campus procedures call for APAC to hold an open meeting for affected departments. Then in the "mother of all open meetings," the Campus Senate will debate the issue. In any case, we hope to have the process completed by the end of the academic year.

Q. Are some departments still opposed to the suggested changes?

A. I've been impressed with the understanding of the situation across the campus. We seem to be operating in a mode where, although people may disagree with individual decisions, the process and the degree of seriousness with which the process is being carried out have won a lot of respect from the campus community. I attribute this largely to the quality of the people involved in the committees and the hard work they've done over the summer.

Q. What if a committee changes a current recommendation?

A. I'm going to ask why. And I'm going to say, are your arguments more persuasive than the arguments APAC had developed last spring? And, if the case is made by the committee, APAC would have to examine the consequences.

Q. How will you announce recommendations?

A. We want to make them public as quickly as we can. One of the benefits of this process is that it's been very open. Although there have been some problems because of the very openness of the process, it would be wrong to shut it down now.

Q. Is it possible that all the recommendations made last spring were not sufficient to handle the latest budget crunch?

A. That issue is causing both me and my colleagues some concern. We are going to have to look very deeply into what else we may have to do if the economic situation worsens. Fiscal year '93 is looking very foreboding, and very much depends on whether the General Assembly enacts a mid-year tax increase in January, 1991.

Q. In considering mergers or program elimination, what is the worst thing that could happen?

A. The worst thing that could happen is that we do nothing. The best is that we implement the recommendations designed to maintain the quality of our good programs while downsizing some programs we feel are less central and less important to the university as we know it today, and that as a result, we are able to maintain a very strong academic core for the university, one that's in position to respond to the better economic circumstances that are going to come in a couple of years.

Q. Are we losing some of our best faculty?

A. Unfortunately, we have already seen the beginnings of some drain of faculty, primarily to schools in the mid-west. That's a fear we have recognized for some time. But part of the reallocation process has as one of its consequences that our faculty, particularly our most distinguished faculty, understand that we are making some very difficult decisions to protect the quality of our programs and faculty. If we were not interested in doing this, we would have just made across-the-board cuts and be done with it. But we are going through this tremendous labor-intensive activity to try to preserve what's the very best at College Park.

Q. Is part of the plan a cutback in the number of faculty?

A. We intend to make maximum use of retirements, vacant lines, and areas that don't require an immediate filling of a line. We will

try to gather our resources together so that we'll have some money and lines to put in areas that do need strengthening and which are central to our mission. But we do not plan a reduction in faculty.

Q. What decisions on agriculture have been made?

A. The chancellor has set in motion a process which he hopes will lead to some resolution of the agriculture situation in late September.

Q. What about the question of UMBC-UMAB mergers?

A. At the moment, that merger has just been put on the table by MHEC, and the Board of Regents has authorized study of the notion. We have to wait and see what is proposed.

Q. Do we have any problem with our indirect costs?

A. No. Our indirect cost rate (46 universities generally have an indirect cost rate close to twice ours. We also have very careful accounting procedures, so as to avoid some of the troubles that have been identified elsewhere.

Q. Finally, if you look into your crystal ball, what lies ahead for this university?

A. I fully believe that despite the temporary setbacks we may be enduring now, in the long run we will maintain our excellence.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor *Outlook*, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Summer Undergraduate Research Program Held

Students from nine colleges and universities, including College Park, took part in the second annual Summer Undergraduate Research Program this summer. Sponsored by the Office of Graduate Minority Affairs, the program provides an opportunity for minority students to work closely with a College Park professor in his or her area of expertise, to learn research skills, and to do advanced work in a specific field. Eighteen College Park faculty from a wide range of disciplines took part. The program drew 22 minority students from schools in six states and the District of Columbia. Each participant received a \$1,500 stipend and funds to cover travel expenses, housing, and tuition.

NEWS

Byrd Stadium Refurbishment Completed

The most extensive refurbishment to Byrd Stadium since its construction in 1950 is now complete—just in time for the new football season. The \$13.2 million project was funded by monies from donors and the State of Maryland.

Planned next for the stadium is a \$6.1 million Football Training Center that will house football offices, locker rooms, and state-of-the-art support facilities, such as strength and conditioning rooms and a medical training facility.

Terp fans will find the refurbished stadium replete with improvements. These include:

- A refurbished concrete bowl in the stadium and all new permanent seating.

- New concession and rest room areas on the south side of the stadium. The stadium's first formal entrance, the South Gate, is part of the new look.

- A 92-foot by 152-foot Athletics Welcome Center that sits atop the south rim of the stadium.

- A five-tiered press box within the Athletics Welcome Center that includes a second floor hospitality suite, 150 media seats on the third level, broadcasting and support

facilities on the fourth level, and a photo deck at the top. On the first level, 400 deluxe seats will be heated and shielded from the weather.

While bringing the stadium up to modern standards of comfort and convenience, the new additions and improvements also were designed with an eye to tradition. Encased in sand-molded Calvert #103 brick that matches the Williamsburg-style brick used on most of College Park's 335 buildings, the brick marries contemporary architecture with the campus' traditional Georgian look.



The new Athletics Welcome Center in final stages of construction

Regents Approve Budget-Cutting Principles

At its August 28 meeting, the UM System Board of Regents approved a set of principles to address budget shortfalls as well as to establish guidelines for the long-term redeployment of resources. The principles are based on the University System's goal of "achieving and sustaining national eminence with each of the institutions fulfilling distinctive and complementary roles."

The plan is to budget "selectively and strategically" while taking into account:

- the requirement to meet mandatory expenses and submit a balanced budget;

- the continuing commitment to the priorities set by the Board of Regents systemwide plan (including enhancement of College Park and improvement of undergraduate and teacher education); and

- the resolve to reward cost effectiveness, promote greater efficiency, and encourage sound management practices.

Based on these principles and available revenues, the following considerations will guide budgetary decisions:

Short-term:

- **administrative and instructional costs**—these will be examined relative to peer groups, applying greater cuts where costs are unjustifiably high;

- **enhancement costs**—whenever feasible, lesser cuts will be made in areas slated for enhancement in the systemwide plan.

- **tuition increases**—deep cuts in general funds will require shifting a greater share of instructional costs to the student. Impact on students will be mitigated by increasing scholarship support.

Among the short-term cost-cutting measures the constituent institutions will employ under System guidelines are:

- **restrictions on operating expenditures**—institutions will restrict operating budgets by eliminating, limiting or deferring purchases, maintenance, travel and less essential activities;

- **personnel reductions**—To cut personnel costs, limits on part-time hiring, delays in filling vacancies, limited furloughs, and layoffs in

areas least essential to the educational process are the methods to be used;

- **pooling regional administrative services**—constituent institutions will seek to form regional service consortia to pool administrative resources and to meet certain cost-saving targets.

Over the long-term, funds will be allocated based on a systemwide strategic planning effort integrated with the budget process and accountability program. Among the factors the System will consider in deploying and redeploying resources are:

- **enrollment projections and patterns**—the System expects to cap enrollment systemwide and to encourage shifts in undergraduate populations toward campuses with moderate instructional costs as well as to the community colleges;

- **program duplication and institutional collaboration**—a goal will be to eliminate unproductive or undesirable duplication of academic programs within the System while increasing collaboration among constituent institutions;

- **limits on new graduate and off-campus programs**—in the absence of additional revenues, new master's and doctoral programs will be initiated only when savings equal to the cost of the new program are achieved elsewhere. The System will open new off-campus sites as it can pay for them from savings elsewhere;

- **paperwork reduction**—a con-

certed program will be launched to decrease bureaucratic requirements while still ensuring accountability;

- **System consolidation**—The System will begin groundwork for fewer, more efficient institutions; fewer, more focused academic offerings; fewer, more responsive research and service programs.

Among the long-term redeployment measures and issues the constituent institutions will pursue are:

- **strategic planning and redeployment**—each institution will establish strong strategic planning and cost analysis programs in concert with similar efforts at the System level. They will establish priorities and use these as the basis for redeploying resources from less essential areas to areas of strength central to the institutional mission.

- **academic productivity**—institutions will increase productivity of their academic programs, based on a thorough review of outputs and quality in relation to factors such as teaching loads, research, and service activities, etc.;

- **auxiliary enterprises**—Particular attention will be paid to costs associated with self-support enterprises. Student fees in support of lower priority activities might be reduced to mitigate the impact of tuition increases;

- **personnel costs**—institutions will review and reduce personnel costs through such measures as new technologies, contracts for service, and early retirement programs, as feasible.

Weiss Wins 1991 AAUW Award

Marion Gail Weiss, assistant professor of architecture, has won the American Association of University Women's Educational Foundation's 1991 Recognition Award for Emerging Scholars.

The award honors faculty women with an exceptional record of early accomplishment, demonstrated excellence in teaching and an active research record. The award includes a \$3,500 prize.

Weiss is co-designer of the winning entry in the Women in Military Service Memorial National Design Competition. The winning

design, chosen from more than 130 entries, will restore the Hemicycle Gateway to Arlington National Cemetery and include a cultural/education center, a registry of 1.6 million women, terraces, gardens and ten illuminated glass spires.

"Marion Weiss has demonstrated through repeated prizes and awards her potential contribution to the field of architecture, architectural design, and especially urban design and commemorative and monumental architecture," says Steven W. Hurtt, dean of the School of Architecture.



Marion Weiss

Barrett Rudick, AAUW

College of Library and Information Sciences to Host Alumni Day

The College of Library and Information Sciences Alumni Day is September 20 from 9 a.m. to 4 p.m. in the Hornbake Library. The morning program will include a panel discussion of the topic "The Library Professional: Endangered Species?" Other activities will include speakers, a luncheon, and the presentation of the Alumni of the Year Award and the CLIS Alumni Scholarship. For more information, call 405-2064.

Study Examines Filipino Human Rights Education Program

A Filipino experiment in human rights education has relevance for other emerging democracies, according to Richard P. Claude, professor of government and politics.

Claude is one of the nation's leading authorities in the area of human rights and the philosophical and moral problems they raise.

During the 1990-91 academic year, he was Visiting Fulbright Research Professor at the Institute of Human Rights at the Law Center of the University of the Philippines, Diliman, Quezon City.

He has written a study assessing a four-year-old Filipino program of human rights education and has drawn some lessons from its strengths and weaknesses that he believes can be applied to other emerging democracies.

The Philippines' case, he says, takes on global significance as it becomes clear that human rights education is an instrument showing promise at the national level of promoting good citizenship and normalizing civil-military relations and at the international level for achieving the goal of the United Nations Charter to build a world order of peaceful states in the international community.

"The Philippines is in turmoil, but it is the turmoil of life, not death, of the movement of people in search of a more human and humane way of developing their society and political community earmarked by justice, fairness and freedom," Claude writes.

While human rights education has been undertaken in several countries, there are no published comprehensive national case studies of its implementation in policy, legal and political terms. It was this gap in scholarly literature that prompted his study.

The development and implementation of a human rights education program flow through social, bureaucratic and political channels which remain operative so long as they are unimpeded and

open, Claude says. The Philippine case study is helpful in identifying some critical choke points among these channels for change.

In his study, Claude contrasts what he calls "a virtuous neophyte policy to 'transform social values' with menace from all sides including several coup d'état attempts, rogue bombings conducted by disaffected soldiers, natural disasters, economic hardship and social and cultural crisis."

Claude draws six conclusions from the Philippine experience that he believes have relevance to other emerging democracies.

1. International government organizations are essential sources of technical assistance in establishing a national human rights education program, especially in the start-up phase.

2. International non-governmental organizations engaged in monitoring rights violations should report, as well, on education.

3. Emerging democracies can benefit by adopting constitutional requirements for the teaching of human rights.

4. Informal education directed at public opinion is important in a country with an authoritarian past so as to promote the acceptance of



Richard P. Claude

human rights education.

5. Implementation of nationwide human rights education requires multi-directional efforts with attention to "bottom-up" processes of fostering grassroots participation.

6. For human rights education to succeed, the participation of human rights non-governmental organizations is critical at every stage of the implementation process.

Claude's study, "Human Rights Education in the Philippines," is scheduled for publication in *Human Rights Quarterly* (Johns Hopkins Press) in November, and will be distributed in the Philippines in book format (Kalikasan Press).

Tom Otwell

Book Named "Outstanding" by Choice Magazine

Human Rights in the World Community: Issues and Action, a book co-edited by Richard P. Claude, professor of government and politics, and Burns H. Weston, was one of 540 "Outstanding Academic Books and Nonprint Materials" selected by Choice magazine. The 1991 list honors titles selected from more than 5,500 reviews published in the March through December 1990 issues of the magazine and is a tribute to the quality maintained in scholarly publishing in the United

States today.

The Choice editors develop the list as a service to academic librarians to assist them in their collection development efforts by bringing to their notice the outstanding scholarly publications of the prior year.

Claude is also co-editor (with Thomas B. Jabine) of the book, *Human Rights and Statistics: Getting the Record Straight* (University of Pennsylvania Press) to be published in October.

Nacht Co-Authors Study on Internationalizing Higher Education

Michael Nacht, dean of the School of Public Affairs, is co-author along with Duke University economics professor Craufurd D. Goodwin, of the recently published study, *Missing the Boat: The Failure to Internationalize American Higher Education*.

The book analyzes the international experience of American college and university faculty and is based on extensive interviews with some 700 individuals at 37 campuses in four regions around the country.

It examines the type of faculty

who go abroad and their reasons for doing so, the incentives and disincentives for faculty travel overseas, attitudes on U.S. campuses toward such travel and activities, special obstacles and risks faced by those faculty who undertake international experiences, and the effects of these experiences among faculty on the internationalization of campuses in this country.

In previous studies, the co-authors have explored such topics as the policy issues associated with foreign students in American colleges and universities (*Absence of*

Decision), the attitudes of students from developing countries who have studied in the United States (*Fondness and Frustration*), and the programs and techniques that have been developed to maintain the skills and knowledge base of third-world professionals who had studied in the United States (*Decline and Renewal*). A fourth study, *Abroad and Beyond: Patterns in American Overseas Education*, examines why American students go abroad and how they benefit from the experience.

Women's Studies Program to Host Meeting

Would you like to meet the students, staff, and faculty who are part of the women's studies community? If so, you are invited to join the Women's Studies Program's Assembly of the Whole on Sept. 13 from 3 to 5 p.m. in the Maryland Room of Marie Mount Hall. The program, which is free and open to the public, will be followed by a reception. For more information, call 405-6877.

Academic Programs to Be Held at Kiplin Hall in Great Britain

University of Maryland at College Park students will participate in a new overseas program during the next five years through a unique link between the university and its founding family in Great Britain.

University officials signed a five-year lease agreement in June with the trustees of Kiplin Hall, a 17th-century country estate in North Yorkshire in England. The agreement will give the university use of the buildings and grounds for a variety of special academic programs.

Under the agreement, the university will use Crewe Cottage, the former coachman's house, for lodging on a year-round basis and will have access to the main building and grounds for academic programs. The main building is also open to the public as a museum.

During parts of each year the spaces will be sublet to other universities to help cover the costs of the program, according to David

Fogle, associate professor of architecture and member of the committee overseeing use of Kiplin Hall.

Kiplin Hall holds a special place in Maryland history. The estate was built by George Calvert, the first Lord Baltimore and 17th-century founder of the colony that would become the State of Maryland. A later Calvert, Charles Benedict, great-grandson of the last Calvert owner of Kiplin, was the leader of a group of planters, who, in 1856, secured a charter for the creation of the Maryland Agricultural College, an institution that has evolved into the modern University of Maryland at College Park.

In addition to the historical link, the site provides an ideal location for the study of architectural history, historic preservation and the study of British art and culture, Fogle says. Nearby landmarks include the Roman-era Hadrian's Wall, medieval castles, historic country estates and centuries-old villages.



Kiplin Hall

Some university students already have worked at Kiplin Hall. In the summers of 1987-89, Kiplin Hall trustees and the American Friends of Kiplin Hall sponsored teams of architecture students who travelled to the site as part of a renovation project there under Fogle's direction.

Brian Busek

Shakespeare on Rollerblades—Forsooth, What Next?

Last year University Theatre sent the Bard west in a rollicking cowboy version of *The Taming of the Shrew*. This year from Nov. 14-23, College Park audiences will be treated to a production of Shakespeare's *A Midsummer Night's Dream* that is so trendy all the romantic fantasy's faeries will enter and exit on rollerblades.

And that is only one of many fresh and entertaining surprises in University Theatre's new season.

Between Oct. 10-19, *Bring Back Broadway* will showcase talented young performers in contemporary arrangements of favorite songs from the great musicals of Broadway.

From Feb. 20-29 a production of August Wilson's *Ma Rainey's Black*

Bottom will trace the career of legendary blues singer Ma Rainey and examine the inevitable hatred and destruction that racism breeds.

And between April 23-May 2, *Noises Off*, a fast-paced farce about the back-stage life of a group of British actors, will bring a hilarious mix of slamming doors and split-second timing to Tawes Theatre.

Subscriptions for the 1991-92 season are now available. All four plays will be presented in Tawes Theatre, with audio description available during Sunday matinees and an infrared listening system available at all performances. Selected programs also will be sign interpreted.

Before the second Thursday performance of each production, audi-

ence members are invited to "Meet the Artists" in a series of free discussions with the play's directors, designers and production staff at 7 p.m. in the Tawes Experimental Theatre.

One non-subscription play, *The Faustus Project*, based on Christopher Marlowe's *Dr. Faustus* will be presented in Pugliese Theatre March 24-Apr. 5 in celebration of Women's History month. Tickets for this production, a feminist reconstruction of the old bargain-with-the-forces-of-evil story, will be available by mail order after Feb. 24.

For season brochures and further information call the Tawes Theatre Box Office at 301-405-2201 (voice and TDD).

Stamp Union Gallery to Feature Chesapeake Bay Art

The Stamp Student Union Parents' Association Gallery opens this fall with "Honoring the Chesapeake: Art, Science and Ecology," an exhibit featuring lithograph drawings by Neil Harpe.

The drawings illustrate the new book, *Working the Chesapeake: Watermen on the Bay*, written by Mark E. Jacoby and just published by the Maryland Sea Grant Program.

The Parents' Association Gallery exhibit will run through Oct. 2.

Harpe is a well-known Chesapeake Bay artist who has a special interest in workboats and watermen. He has made countless trips

up and down the bay to study and document the working fleet, some of which stands at the edge of extinction.

To learn firsthand about the lives of the Chesapeake watermen—through their own words and aboard their own boats—author Jacoby went out with them in all seasons and in all weather. He followed Wadey Murphy in his pursuit of crabs, Ben Waters in his hunt for oysters. He joined fishermen as they tended their pound nets, fyke nets, and eel pots.

Although his initial purpose was to detail commercial fishing meth-

ods in the Chesapeake Bay, Jacoby's book ultimately provides much more: the look of the water at dawn in a rising northeast wind, the sound of a waterman's voice cast in accents from the nation's Colonial past. *Working the Chesapeake* provides a glimpse of the people and places that define the region's special character and captures a slice of life and of a time that may soon disappear.

The book is available for \$12.95 from the Maryland Sea Grant College, H.J. Patterson Hall or the Cornell Maritime Press, P.O. Box 456, Centreville, Maryland 21617.



Visiting Scholar Apartment in Dorchester International House Available

A furnished efficiency apartment in Dorchester International House is available for visiting scholars. The apartment may be rented for a minimum period of two weeks and maximum periods of four weeks during the fall and spring semesters. The weekly fee is \$65 with additional charges for parking and phone calls. While in residence, scholars are expected to interact with International House resident frequently, as well as give relevant presentations and/or participate in International House activities. Scholars must be endorsed by the academic department with which they are affiliated while in residence. For more information, call 314-7749.

Reversing Africa's Sahel Drought May Be Possible, Says New Study

The desertification of Africa's Sahel region—currently in the midst of a 20-year drought that is starving millions of people—could continue indefinitely, according to a new study by the Department of Meteorology's Center for Ocean-Land-Atmosphere Interactions (COLA).

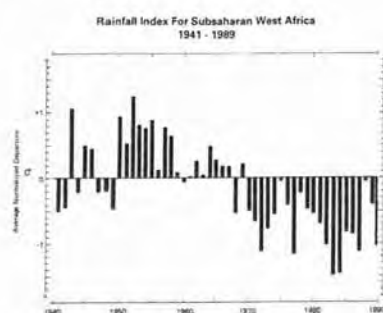
The study also indicates that a massive planting of trees south of the region, could reverse the desertification of the Sahel.

Results from the research will be presented by College Park meteorologists Jagadish Shukla, Yongkang Xue and Daniel Paolino at an American Meteorology Society conference in Salt Lake City on Sept. 9-11, and at the American Geophysical Union's December meeting in San Francisco.

The Sahel, a one-million-square-kilometer region south of the Sahara desert, encompasses 10 countries including Ethiopia and Sudan.

According to the study by Shukla, Xue and Paolino, the Sahel drought may continue or even intensify as interactions between the atmosphere and the land surface further reduce the amount of rainfall in the region.

The graph shows rainfall declines over the Sahel during the past two decades.



"A reversal may be possible, however, through the mass planting of trees first to the south of the region and then gradually extending northward," says Shukla.

The researchers used highly complex coupled numerical models of

the global atmosphere and biosphere to assess whether the drought in the Sahel is a permanent change or if it could be reversed through human intervention.

The climate model that the team used—one of the most sophisticated in the world—consists of about one million equations that are numerically integrated by a supercomputer to project the future state of the climate system.

"We carried out two sets of computer simulation experiments," Shukla says. "First, we used a model of existing conditions in the Sahel region and found that if we leave the process to nature, the Sahel's drought may be permanent," and that the area may, in fact, be transforming into a desert.

"In our other experiment, we looked at the possible effects on the Sahel climate if there were a mass planting of trees. We found that such a human intervention would increase moisture supply and rainfall by 20 to 40 percent and might reverse the desertification process that is now occurring in the region."

Shukla says that though a mass planting of trees to the immediate south of the Sahel may seem impractical, it is not impossible.

"There is plenty of water to the south of the Sahel," he says. "That water could be used to establish and sustain trees so that forests could be expanded northward toward the drought region. It would require a mass international commitment, and that is where the problem lies. But if we can launch Operation Desert Storm," he says, "we can also launch Operation Desert Bloom."

According to Shukla, the Sahel has undergone a regular series of droughts over the ages. This can occur, he says, due to interactions between the oceans, the atmosphere and the land surface processes.



Jagadish Shukla, Daniel Paolino and Yongkang Xue: "Sahel drought could continue indefinitely."

ses. But the current drought is the worst in this century, and appears to be exacerbated by the activities of an increasing world population.

"There are now so many human activities affecting the climate of this region—such as the deforestation and degradation of land surfaces—that the Sahel may now be in a situation where it can no longer recover from a serious drought," Shukla says. "What we are seeing here are naturally occurring climate fluctuations that are being amplified by human activities. It may take a great human intervention—such as tree planting—to pull it back."

The study required 500 hours of number-crunching time on four supercomputers to establish the results for the two models. The work was sponsored by the National Science Foundation and the National Aeronautics and Space Administration.

Shukla and his colleagues in COLA have a particular interest in studying the effects of human action—both positive and negative—on world and regional climate. Last year, to much scientific and public interest, they published a study on the changes in climate that may result from Amazon deforestation.

Fariss Samarrai

Researchers License New Salmonella Tests

A collaborative project between researchers at College Park and the Food Safety and Inspection Service of the U.S. Department of Agriculture has resulted in the licensing of two new Salmonella testing procedures and two pending joint applications between the university and FSIS.

The new method, developed by Russ Miller and Chris Tate, both of FSIS, and Ed Mallinson, associate professor of veterinary medicine at the university, consists of a new system for environmental sampling of salmonellae.

As part of the system, the team developed two new bacteriological plating media, designated BGAN and XLT4, which allow the growth of salmonellae, while inhibiting the growth of other competing bacteria,

whose growth could mask the presence of salmonellae.

A year ago, the Office of Technology Liaison at the University of Maryland, acting with the USDA, licensed the general system to Environmental Systems Service, Ltd. of College Park, headquartered in Culpeper, Virginia. The non-exclusive license allows ESS to provide poultry producers, and other customers needing environmental testing an accurate and efficient means of ensuring safety to consumers and producers, along with monitoring a quality environment once it has been established.

"This is an example of university and government researchers joining forces to develop and transfer new technologies to benefit the public," said Technology Liaison Office

Director Wayne Swann.

Future Medical Technologies International, Inc. of West Palm Beach, Florida, recently obtained an exclusive license to the improved plating media for salmonellae detection from the Technology Liaison Office. Sam Joseph, a professor of microbiology at College Park, modified the media formulation and combined it with FMTI's technology of rapid microorganism detection. FMTI's proprietary technology is a modified bacteriological plate design that traps organisms on the surface of a membrane located above the media. Nutrients are passed through the membrane, and bacterial colonies can be identified and counted within hours.

New Appointments and Promotions for 1991

The following is a list of 1991 promotion and tenure actions and new appointments.

PROMOTION AND TENURE ACTIONS

AGRICULTURE

Professor: Midge Smith (AEED); Peter Dernoeden (AGRO); Raymond Weil (AGRO); Richard Erdman (ANSC); Christopher Walsh (HORT); Edward Mallinson (VETM).
Associate Professor: Joy Mench (POUL).

ARCHITECTURE

Professor: Thomas Schumacher

ARTS AND HUMANITIES

Professor: June Hargrove (ARTH); Neil Fraistat (ENGL); Susan Handelman (ENGL); Linda Kauffman (ENGL); Barry Pearson (ENGL); Beatrice Fink (FREN); Winthrop Wright (HIST); Linda Mabbs Hunt (MUSC); Conrad Johnson (PHIL); Jerrold Levinson (PHIL); Jorge Aguilar-Mora (SPAN).
Associate Professor: Sarah Fagan (GERM); Gabriele Strauch (GERM); Charles Manekin (H/EA); James Thorpe (HSAD); Carmen Balthrop (MUSC).

BEHAVIORAL AND SOCIAL SCIENCES

Professor: Raymond Paternoster (CRIM); Douglas Smith (CRIM); Katherine Abraham (ECON); Ingmar Prucha (ECON); Stephen Leatherman (GEOG); Charles Alford (GVPT); Janet Helms (PSYC); Lee Hamilton (SOCY).
Associate Professor: Denise Gottfredson (CRIM); Katherine Klein (PSYC).

COMPUTER, MATHEMATICAL AND PHYSICAL SCIENCES

Professor: Nicholas Roussopoulos (CMSC); Robert Ellis (MATH); Theodore Kirkpatrick (PHYS/IPST); Ellen Williams (PHYS/IPST).
Associate Professor: Christos Faloutsos (CMSC); William Gasarch (CMSC); Manoussos Grillakis (MATH); Douglas Hamilton (PHYS).

EDUCATION

Professor: Andrew Egel (EDSP).
Associate Professor: Marylu McEwen (CAPS).

ENGINEERING

Professor: David Schelling (ENCE); Mario Dagenais (ENEE); Virgil Gligor (ENEE); Julius Goldhar (ENEE); Armand Makowski (ENEE).
Associate Professor: Evangelos Zafiriou (ENCE/SRC); Sreeramamurthy Ankem (ENCH); Agisilaos Iliadis (ENEE).

JOURNALISM

Associate Professor: Larissa Grunig.

LIFE SCIENCES

Professor: Marjorie Reaka-Kudla (ZOO).
Associate Professor: James Herndon (CHEM); William Lamp (ENTO).

NEW APPOINTMENTS

ARTS AND HUMANITIES

Professor: Bonnie Thornton Dill (WMST).
Assistant Professor: Sally Promey (ARTH); Elaine Upton (ENGL); Richard Wetzell (HIST); Leslie Rowland (HIST).

BEHAVIORAL AND SOCIAL SCIENCES

Associate Professor: Linda Faye Williams (GVPT).
Assistant Professor: Fatimah Linda Jackson (ANTH); Plutarchos Sakellaris (ECON); Lisa Aspinwall (PSYC).

COMPUTER, MATHEMATICAL AND PHYSICAL SCIENCES

Professor: David Rohrich (MATH).
Assistant Professor: Tobias von Petersdorf (MATH); Frederick Wellstood (PHYS).

EDUCATION

Professor: David Jepsen (EDCP) will join faculty in Jan. 1992.
Assistant Professor: Rachel Grant (EDCI); Shelley Diane Wong (EDCI); Gregory Smith (EDHD).

ENGINEERING

Professor: Ramalingam Chellappa

(ENEE/UMIACS); Steven Marcus (ENEE/SRC).
Assistant Professor: Peggy Johnson (ENCE).

JOURNALISM

Professor: Eugene Roberts.

PUBLIC AFFAIRS

Olin Professor: Stansfield Turner.
Assistant Professor: Sheila Ards.

APPOINTED PROFESSOR EMERITUS

AGRICULTURE

James Longest (AEED); Edgar Young (ANSC)

ARTS AND HUMANITIES

Morris Freedman (ENGL); Roderick Jellema (ENGL); Mary Miller (ENGL); Anne Truitt (ART).

EDUCATION

Donald Pumroy (EDCP); Robert Wilson (EDCI).

ENGINEERING

Joseph Silverman (ENMN).

LIBRARY AND INFORMATION SERVICES

Jerry Kidd.

Outlook makes every attempt to include official up-to-date information in this section. It apologizes for any omission or errors.
The Editor

Fifteen-Year Plan Outlines Future Development at College Park

Copies of the university's new Facilities Master Plan, a road map for development at College Park through 2004, will be available early this fall.

The plan, developed after more than a year of work by university staff members, state officials and private consultants, outlines the physical changes that the campus community can expect to see at College Park over the next 14 years. The document was approved by the Board of Regents in June and copies will be available upon request from the Office of Resource Planning and Budget.

Major changes outlined in the plan include a dramatic increase in the amount of campus building space, more expenditure on facilities renewal, and an emphasis on an improved environment for pedestrians, according to Brenda Testa, project coordinator for the Office of Resource Planning and Budgets.

The plan calls for additional classroom, laboratory and office space equal to about half the amount of the space currently available. Such additions would entail more than \$500 million in new construction and are needed to bring College Park to a level

equivalent to its peer institutions, according to the plan.

In addition, the plan calls for a program of renewal of existing buildings that would cost approximately \$130 million over the period.

In its goal of making College Park a more pedestrian-oriented campus, the plan outlines steps for closing several major roadways to most vehicles. Parts of Campus Drive, Paint Branch Drive and Stadium Drive could be closed to all but emergency vehicles under the plan. The details of this program still would have to be worked out by the campus community, Testa says.

While the changes outlined in the document represent official development plans for the campus, they all are not certain to occur. The document still must be approved by the Maryland Higher Education Commission and Maryland's Department of Budget and Fiscal Planning. The actual projects listed in the report then must be approved by state planners and legislators on a case-by-case basis.

For more information about the plan, call Brenda Testa, 405-5630.

Brian Busek



CALENDAR



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SEPTEMBER 9-17



"Hail and Farewell," woodcut on paper by Rockwell Kent. The Art Gallery will exhibit "Works on Paper from the Gift of Martin W. Brown," September 12-October 4. Call The Art Gallery at 405-2763 for information.

9 MONDAY

Parents' Association Gallery Exhibit: "Honoring the Chesapeake: Art, Science and Ecology." Featuring the lithograph drawings of Neil Harpe, today-Oct. 2, Parents' Association Gallery, Stamp Student Union. Call 4-2787 for info.

OMSE Open House, for minority students, faculty and staff, 1 p.m., 1101 Hornbake Library South. Call 5-5616 for info.

Horticulture Seminar Series "Mixer," for faculty, staff and graduate students, 4 p.m., 0128B Holzapfel. Call 5-4336 for info.

Space Science Seminar: "Spatial and Temporal Variations of the ULF Pulsations Observed by the Goose Bay Radar," A.D.M.

Walker, 4:30 p.m., 1113 Computer and Space Sciences. Call 5-6226 for info.

10 TUESDAY

Employee Development Seminar: "Time Management," practical information on how to manage your time, 9 a.m.-4 p.m., Training Room, Administrative Services building. Call 5-5651 for info.

Benefits Orientation, 10 a.m., 4210T Hornbake Library. Call 5-6819 for info. This presentation will be offered the second Tuesday of every month.

Women's Soccer vs. William & Mary, 4 p.m., Denton Field. Call 4-7070 for info.

Physics Colloquium: "Flux Motion and Resistance in High Temperature Superconductors," Michael Tinkham, Harvard U., 4 p.m.; tea, 3:30 p.m., 1410 Physics. Call 5-5953 for info.

11 WEDNESDAY

"M" Club Rodman Celebrity Golf Tournament, 18th annual alumni tournament, two sessions, 7:30 a.m. and 12:15 p.m. Call 4-7015 for info.

New Student Celebration: "It's Maryland Tradition," to welcome new undergraduate and graduate students, featuring a showcase of academic departments, picnic lunch, remarks from President Kirwan, Maryland Marching Band

and cheerleaders, 11:30 a.m.-1:30 p.m., McKeldin Mall. Call 4-8204 for info.

Molecular and Cellular Biology Distinguished Lecture: "Role of CCAAT/Enhancer Binding Protein in Preadipocyte Differentiation," M. Daniel Lane, Johns Hopkins School of Medicine, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

University Theatre Open House, information about upcoming auditions and backstage opportunities, food and entertainment, 8 p.m., Tawes Theatre. Call 5-2201 for info.

12 THURSDAY

Art Gallery Exhibition: "Selected Works by Alfred C. Crimi," featuring paintings, watercolors, drawings and graphic works; and "Works on Paper from the Gift of Martin W. Brown," Sept. 12-Oct. 4, The Art Gallery. Call 5-2763 for info.

Employee Development Seminar: "AIDS in the Workplace," designed for supervisors but any interested persons may attend, 9 a.m.-2 p.m., Training Room, Administrative Services Bldg. Call 5-5651 for info.

Meteorology Seminar: "Progress in Soviet Oceanography," Gennedy Korotaev, Marine Hydrophysical Institute, USSR, 3:30 p.m., 2114 Computer and Space Sciences; coffee and cookies, 3 p.m. Call 5-5392 for info.

Committee on the History and Philosophy of Science Colloquium: "Theory Changes in Science: Historical and Computational Approaches," Lindley Darden, Philosophy, 4 p.m., 0201 Computer and Space Sciences. Call 5-5691 for info.

13 FRIDAY

10th Annual Stamp Student Union "All-Niter": "Your Lucky Night," featuring Naval Academy Brass Quintet, comedian/magician Bob Garner, live music, international student fair, casino, carnival games, prizes and food, noon-2 a.m., Stamp Student Union. Call 4-8618 for info.

Speech Communication Colloquium: "Exploring Denunciation and Inclusion: Frederick Douglas and the Fourth of July," Lucy Hogan, Speech Communication, noon, 0147 Tawes Fine Arts. Call 5-6524 for info.

Women's Studies Program Annual "Assembly of the Whole," 3-5 p.m., Maryland Room, Marie Mount. Call 5-6877 for info.

Graduate Student and Faculty Gathering: "Diversity in the Christian Community," Gayle Harris, Church of the Holy Communion, Washington, D.C., 5:30 p.m., St. Andrew's Parish, College Park. Call 5-8453 for info.

14 SATURDAY

Women's Volleyball vs. Drexel, 2 p.m., Cole Field House. Call 4-7070 for info.

UM Football vs. Syracuse, 7 p.m., Byrd Stadium. Call 4-7070 for info.

15 SUNDAY

Men's Soccer vs. Virginia, 2 p.m., Denton Field. Call 4-7070 for info.

16 MONDAY

Art Gallery Exhibition: "Selected Works by Alfred C. Crimi," featuring paintings, watercolors, drawings and graphic works, Sept. 12-Oct. 4, The Art Gallery. Call 5-2763 for info.

Horticulture Seminar: "Xylem Sap Proteins," Fred B. Abeles, Appalachian Fruit Research Center, Kearneysville, WV, 4 p.m., 0128B Holzapfel. Call 5-4336 for info.

Space Science Seminar: "Monte Carlo Simulations of Charged Particle Transport," James Earl, Physics and Astronomy, 4:30 p.m., 1113 Computer and Space Sciences. Call 5-6226 for info.

17 TUESDAY

College of Agriculture Welcome Picnic, for students, faculty and alumni, featuring food, entertainment and activities, 3:30 p.m., Symons Hall (outside facing the Mall). Call 5-2078 for info.

Physics Colloquium: "A New Symmetry of the Strong Interactions," Nathan Isgur, Theory Division, CEBAF, 4 p.m.; tea, 3:30 p.m., 1410 Physics. Call 5-5953 for info.

* Admission charge for this event. All others are free.

Dudley Dillard Memorial Service to Be Held September 11

A memorial service for the late Dudley Dillard, professor emeritus and former chair of the Department of Economics, will be held Wednesday, September 11 at 3 p.m. in Memorial Chapel.

Dillard, who died August 28 following a heart attack at Leland Hospital, was an internationally recognized authority of Keynesian economics and the history of the

North Atlantic community. He was chair of the economics department from 1952 to 1975 and helped lead it to national prominence.

The author of numerous articles and books, his book *The Economics of John Maynard Keynes* was translated into ten languages.

Dillard served as chair of the Faculty Assembly, president of the American Association of University

Professors, and president of Phi Beta Kappa. He also served as president of the Southern Economic Association, the Association of Evolutionary Economics and the Eastern Economic Association. He was a member of the U.S. Executive Board of the American College in Paris since 1966, and served as its chair from 1979 to 1981.